

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: "Barry L. Ornitz" <u856010@eastman.com>
Subject: Adhesives, Glues and Cements for Tube Bases and Caps
Message-ID: <Pine.ULT.3.91.951204183111.21214A-100000@dua150.kpt.emn.com>

As I mentioned last week, I photocopied a large table from Max Knoll's book, "Materials and Processes of Electron Devices", which covered tube basing cements in commercial use in 1959. I read this over the weekend and did a little research in our library over lunch, so I feel somewhat more qualified to comment now.

I mentioned the last time:

>I can say, however, to definitely stay away from carpenter's glue (casein
>and polyvinyl acetate based), horsehide glue, and sodium silicate based
>glues. The cyanoacrylate glues and hot melt adhesives are unsuitable for
>plate caps (too hot) but might possibly work on CRT bases which are
>relatively cool. I suspect that 24-hour epoxies may be good while the 5-
>minute epoxies may not be suitable. But before anyone uses them, allow me
>to read Knoll's table carefully and comment next week.

Since I received several questions about this preliminary post, let me explain it first.

Carpenter's glue, Elmer's glue, horsehide glue, and the like cannot take the temperatures involved with plate caps. They are likely to char and fail in this application. To tighten up a tube base, a little might be suitable applied carefully around the phenolic base allowing capillary action to carry the glue into the joint. However all of these materials suffer from moisture absorption and if you allow them to run between the base leads, you will create conducting paths and big problems.

Sodium silicate based adhesives (also found in some muffler repair kits) might be suitable for plate caps. They are slow curing (several days), but can take elevated temperatures fairly well. A commercial version based on graphite, kaolin, and sodium silicate was used to cement certain glass to metal seals in some tubes. However, electrical conductivity of these silicates makes their use around base pins risky. Some silicate adhesives absorb considerable water too.

Someone mentioned collodian, which is VERY unsuitable. Mike Covington is correct about its chemical composition: cellulose nitrate in an ethyl ether/ethanol mix. This stuff is EXTREMELY flammable.

Knoll mentions pitch (pine rosin), shellac and a synthetic Novolac (low MW phenol-formaldehyde resin) being used as a thermoplastic adhesive. None of these would be suitable for plate caps but might handle a low temperature basing situation. Knoll also mentions a litharge (lead oxide)/glycerine mix used on X-ray tubes which is a low temperature

adhesive subject to water absorption and is very poisonous. He also mentions another inorganic cement similar to plaster of Paris in composition but notes that it is subject to water absorption and it corrodes parts that are not zinc or nickel plated.

The remaining cements Knoll discusses are all thermosetting polymerization adhesives. Two are higher molecular weight Bakelite phenolics with inorganic fillers often used with light bulbs. The final one is a silicone based cement.

At the time this book was published (1959) cyanoacrylate adhesives had just been introduced. Newer formulation epoxies and silicones were not around either. Hot melt adhesives were also mainly limited to industrial use.

So limiting our list to materials that are readily available - and relatively safe, I would personally like to suggest the following:

Tube Basing Glues:

- Cyanoacrylates (super-glue, originally Eastman 910 adhesive). These adhesives are surface activated. They bond best in extremely thin coats and they bond to glass well. Being a low viscosity liquid, they can seep into an existing base by capillary action. Unfortunately they will not handle elevated temperatures and the joint is quite brittle. Thus if you expect thermal expansion to be a problem, you might consider something else.

- Hot melt adhesives (glue sticks, etc.)
Once again, these cannot take elevated temperatures. Being rubbery, they do allow a little give in the joint. For CRT socket attachment, where the base is often relatively cool because the electron gun is several inches forward of the base, these might work well. However they all are high viscosity so expect little penetration by capillary action.

- Epoxies (Araldite, Devcon, etc.).
Epoxy cements are available in two common forms: quick curing and slow curing. The 5-minute epoxies produce quite brittle joints and should probably not be used where thermal expansion is likely. The 24-hour epoxies are far more flexible when cured. I have used the 24 hour type for plate caps in the past with success. I usually added a little chalk, zinc oxide or magnesium oxide to the epoxy to make it white and absorb less infrared radiation. Slow curing epoxy should do quite well to attach tube bases. Be careful in the proportions used and in the mixing.

- Silicones (GE RTV's, Dow Bathtub Caulk, Permatex).
Silicones usually do quite well at elevated temperatures. For home use, you will likely find only the one-part materials. These release acetic

acid as part of their cure (polymerization) which can cause corrosion problems with certain reactive metals. They will also rarely cure thicker than 1/4 inch sections. The two-part materials are like epoxies, i.e. a resin and a hardener (catalyst). They can do deep section cures and can be obtained in non-acid releasing forms. If you can find it, the RTV-60 material is good for short-term exposures of up to 300 C. The one-part version of this material is RTV-106. While these materials may be hard to find, Permatex sells essentially the same material as their red, high-temperature, gasket silicone. Even the Permatex blue silicone can handle moderately high temperatures. Acetic acid in a tube base may be asking for trouble.

My personal favorites are the 24-hour epoxies and the silicones. Give each of these 24 to 48 hours before stressing the joint. Also expect a little smell, both during mixing and application - and when you cook the material trying to push that last watt out of the tube! Follow the safety precautions on the packages carefully. Use the minimum of adhesive necessary to do the job too.

It is possible some of the other Permatex high temperature gasket materials might be suitable. Without knowing their composition, though, I would hesitate to suggest them.

Once again, if you wish to respond to this note, USE THE ADDRESS BELOW.

73, Barry WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: clarke@next3.acme.ist.ucf.edu (Thomas Clarke)
Subject: Re: Adhesives, Glues and Cements for Tube Bases and Caps
Message-ID: <9512051504.AA29753@next3.acme.ist.ucf.edu>

My experience is that the glue in octal and other small based tubes is brown and crumbly. I always assumed it was some sort of hide glue or mucilage or something fairly low tech.

Digging out some dead Christmas bulbs from the strings last weekend, I noticed that the glue in the bulbs was still the same sort of brown crumbly material.

Tom Clarke
KE4VFH

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: List Admin/Owner BoatAnchor Mail List <listown@jackatak.theporch.com>
Subject: Adminitrivia: *PLEASE* edit that inclusion!
Message-ID: <9512042229.aa23126@jackatak.theporch.com>

Gang-

I have been a busy little beaver lately, and I am afraid I must come to you and ask for some help...

I have written to those who have included an obvious amount more of a previous message than was needed, and asked for help, but there are now SEVEN HUNDRED SEVENTY FIVE of you, and I need you *ALL* to get the message.

You see, that few extra lines that you don't think makes any difference, so you just overlook editing it out... "who cares?" "What difference does it make?" "It won't matter"

I'm here to tell ya, it does make a difference, and it does matter: as of the moment, every BYTE of message coming to the BA list generates 1K of email load... that means an extra 1000 or so bytes, multiplied by the subscriber list, equates to almost ONE MEGABYTE!

That little bit matters! PLEASE help Phil and me out, and edit down your inclusions.. and, I think, the list as a whole will appreciate it, because not having to wade through loads of included text that has no bearing on a submission is "distracting" if ya knw what I mean... ;^)

Thanks for the help, gang...

--

73

Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)
- - - BoatAnchor Mailing List Owner - - -
listown@jackatak.theporch.com-"Plus ca change, plus c'est la meme chose"

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: Re: Adminitrivia: *PLEASE* edit that inclusion!
Message-ID: <Pine.SV4.3.91.951204185050.26297A-100000@uhunix5>

On Mon, 4 Dec 1995, List Admin/Owner BoatAnchor Mail List wrote:

> ...there are now SEVEN HUNDRED SEVENTY FIVE of you...

>

> ... every BYTE of message coming to the BA list

> generates 1K of email load... that means an extra 1000 or so bytes,
> multiplied by the subscriber list, equates to almost ONE MEGABYTE!

Hmmm, might it be time (again) to discuss becoming a newsgroup on UseNet? The newest speciality groups such as r.r.a.homebrew and r.r.a.antenna have become very successful with no flaming nor "junk" articles. Rec.radio.amateur.boatanchors would be the newest addition in the speciality groups, and the burden of running a list would immediately disappear, Jack. You could run a "email gateway" for those without UseNet access if you so desire.

73 from Hawaii,
Jeff NH6IL

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: Re: Adminitrivia: *PLEASE* edit that inclusion!
Message-ID: <199512051247.GAA13235@dlep1.itg.ti.com>

At 11:11 PM 12/4/95 -0600, you wrote:
>Hmmm, might it be time (again) to discuss becoming a newsgroup on
>UseNet?

Gee, with what I learned last week about usenet speed, I could post an article on Monday and read the reply on Friday (on average, your mileage might differ).

Don't forget, Jack has kept BoatAnchors clean (and taken flak for it too).
Regards,
Bill Sorsby, N5BU bill.sorsby@dlep1.itg.ti.com

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: k1zat@bah.com
Subject: Re: Adminitrivia: *PLEASE* edit that inclusion!
Message-ID: <Pine.SUN.3.91.951205084615.21952A-100000@booz.bah.com>

Jeff

On Mon, 4 Dec 1995, Jeffrey Herman wrote:
> UseNet? The newest speciality groups such as r.r.a.homebrew and

Now you've done it.

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: Rolfe Tessem <rolfe@ldp.com>
Subject: Re: Adminitrivia: *PLEASE* edit that inclusion!
Message-ID: <199512052237.RAA26493@rosebud.ldap.com>

On Mon, 5 Dec 1995, Jeffrey Herman <jherman@hawaii.edu> wrote:
>On Mon, 4 Dec 1995, List Admin/Owner BoatAnchor Mail List wrote:
>> ...there are now SEVEN HUNDRED SEVENTY FIVE of you...
>>
>> ... every BYTE of message coming to the BA list
>> generates 1K of email load... that means an extra 1000 or so bytes,
>> multiplied by the subscriber list, equates to almost ONE MEGABYTE!
>
>Hmmm, might it be time (again) to discuss becoming a newsgroup on
>UseNet? The newest speciality groups such as r.r.a.homebrew and
>r.r.a.antenna have become very successful with no flaming nor
>"junk" articles. Rec.radio.amateur.boatanchors would be the
>newest addition in the speciality groups, and the burden
>of running a list would immediately disappear, Jack.
>You could run a "email gateway" for those without
>UseNet access if you so desire.

I confess that in this age of cheap 4 gig and 9 gig drives and cheap net bandwidth, I don't understand why these concerns are arising. I personally would rather see the list remain a list rather than an unmoderated newsgroup, but it really should be hosted on a system that has adequate resources, both disk and bandwidth. Usenet volume is up to well over 200 meg per day, and we handle it easily on an old NextStation over a 320K fractional T1 line. A mailing list such as this should have minimal impact on any system that already handles news adequately.

What is the architecture of the sytem that is hosting the list now?

--

Rolfe Tessem		Lucky Duck Productions, Inc.
rolfe@ldp.com		96 Morton Street
(212) 463-0029		New York, NY 10014

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: w7ni@teleport.com (Stan Griffiths)
Subject: Another use for a Grid Dip Meter

Message-ID: <199512041950.LAA09399@desiree.teleport.com>

> Appears to work,
> because when I put the 5-14mc coil on it and tune it to 10mc, it stomps out
> the 10MHz WWV on my shortwave... I notice that Grid Dip Meters are mentioned
> briefly in the FAQ (or is that the rec.antiques.radio+phono FAQ?) in the
> useful tools section. The manual mentions using it to find the values on
> unknown condensers and inductors, pretuning transmitters, locating parasitic
> oscillations, and doing antenna adjustments. It mentions briefly that it can
> be used in adjusting radios and TV's, but provides no detail. How do I use
> it this way?

Once upon a time, more than 30 years ago, I lived in a fourplex in Orange, California. I had a rather bad TVI problem since I was limited to low wire antennas, poor ground, and a pair of 813s to make up for the lousy antenna. Neighbor across the sidewalk in the next fourplex bugged me everytime I got on the air and sometimes when I didn't! I could see their TV set with it's rabbit ears from my hamshack. One day, I got out my Heathkit Grid Dip Meter and tuned it to the channel they were watching. Really screwed it up. Of course, they immediately banged on my door. I let them in and showed them that the rig was stone cold, yet their TV was terrible! They concluded it wasn't me!!

Stan W7NI@teleport.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: jcreid@CCGATE.HAC.COM
Subject: Associated Radio info
Message-ID: <9511058181.AA818179454@CCGATE.HAC.COM>

Anyone out there have the address and/or phone number for Associated Radio in Kansas City? Thanks in advance. Respond to me directly.

-Jim N6SVS
jcreid@ccgate.hac.com

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: Steven Wilson <randyw@crl.com>
Subject: Re: Barry on the net?
Message-ID: <Pine.SUN.3.91.951204180653.5222A-100000@crl2.crl.com>

Rgr, reply to Barry's Fm: does now work and his eastman.com acts like a bit bucket. Maybe his address is only one way ? de stan ak0b
e-mail via randyw@crl.com

On Mon, 4 Dec 1995, penson wrote:

> Barry is on the net but I don't know his e-mail address. I'm sure someone
> here must have it.
>
> Chuck
>

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: Bill Nelson <billn@PEAK.ORG>
Subject: Re: Barry on the net?
Message-ID: <199512050314.TAA08540@PEAK.ORG>

Anyone wishing to send e-mail to Barry use:

ornitz@eastman.com

The address in the header apparently does not work.

Bill

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: MEC <danmec@inet.uni-c.dk>
Subject: Re: Book Review
Message-ID: <Pine.3.89.9512042021.A18740-0100000@inet.uni-c.dk>

Talking of codebreakers/Bletchley Park :

I have surplus to my requirments a book :

Code Breakers , the inside story of Bletchley Park

written by F.H. Hinsley and alan Stripp. Paperback version. NEW.
Email me if interested.

73 Rag OZ8R0

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: k1zat@bah.com
Subject: Re: Book Review
Message-ID: <Pine.SUN.3.91.951204225734.27890A-100000@booz.bah.com>

Speaking of..

> Talking of codebreakers/Bletchley Park :

Another good book is "The Enemy is Listening" by Aileen Clayton the first woman in British history to be commissioned as an intelligence officer. Published by Ballantine Books in NY, 1980. ISBN 0-345-30250-8.

While on British soil, "Chicksands, a Millennium of History" by William Grayson is also good. 1992, Shefford Press, ISBN 0-9633208-0-7.

jd

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: MEC <danmec@inet.uni-c.dk>
Subject: Books on German WW2 military electronics
Message-ID: <Pine.3.89.9512042014.A18740-0100000@inet.uni-c.dk>

I have duplicates of some of Fritz Trenkle's books on the Wehrmacht radio/radar incl EW, Elint gear.

IN GERMAN, with many photos, specs, illustrations.

E-mail me if interested.

73 Rag OZ8R0

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: KE4RHH@aol.com
Subject: Cleaning/repair of R-390A Antenna Trimmer Capacitor?
Message-ID: <951205114921_45120046@mail02.mail.aol.com>

The antenna trimmer capacitor, the one enclosed in a can and driven by a right-angle drive, is apparently shorting out over about 85-90% of its rotation. In other words, instead of signals getting gradually weaker as the front panel knob is rotated, there is a complete loss of signal for about 85-90% of the knob's rotation, and this holds for all bands. How do you go about curing this problem, short of what appears to be a major job of disassembling the unit to clean the capacitor?

73's and thanks,

Tom

KE4RHH@AOL.com

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995

From: "Ray L. Mote" <rmote@rain.org>
Subject: Re: Command transmitter parts needed
Message-ID: <Pine.SUN.3.91.951204112042.1261B-1000000@coyote.rain.org>

1. Can't help with blue instructions plate for AN/ARC-5.
2. 3-48 binding head screws for case & bottom plate are available in stainless steel (not original nickel-plated brass, unfortunately) from McMaster-Carr:
Part No. 91793A092 1/4" long
91793A094 3/8" long
91793A096 1/2" long
Prices are around \$4 per package of 100.

McMaster-Carr Supply Co.
P.O. Box 54960
Los Angeles, CA 90054-0960
(310) 692-5911

BTW, this company puts out a catalog that is 2,663 pages long and weighs a ton! They've got everything in the way of industrial supplies, mechanical parts, tools, raw materials (sheet teflon, hi-temp ceramics, bakelite [Garolite], etc.), that you can think of. The catalog is not easy to obtain, so be prepared to do some really fast talking <grin>. VK2GCE damned near fainted when he saw it -- seems the Aussies have been on the metric system so long that there isn't any information available on the American mechanical systems (screws, taps, dies, drills, etc.). They also don't have access to these parts in Australia, and have a really stiff import duty on the stuff. The guys "down under" who restore, maintain, and operate old American gear have to make a truly Herculean effort to *fabricate* replacement parts from scratch!! That they are successful in this is truly a compliment to their ingenuity, determination, and just plain guts!

73.....Ray Mote, W6RIC (805) 985-6048

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: "Colin Schmutter" <cschmutter@bcit.bc.ca>
Subject: Drake C-line AM hetrodyne
Message-ID: <199512051711.JAA27266@mozart.bcit.bc.ca>

I am using the Drake C-line and have noticed a peculiarity while receiving AM.

With the inter-connecting cables attached between the R-4C receiver and the T-4XC transmitter and the receiver switched to AM a

noticeable heterodyne is received while tuning in an AM signal.

If the carrier oscillator cable is disconnected between the RX and TX or the TX mode is switched to AM the heterodyne disappears.

Is this normal for the C-line or do I have a problem with mine.?

Any comments would be appreciated.

Colin

cschmutter@bcit.bc.ca
Colin Schmutter
Networks and Communications
British Columbia Institute Technology
CSCHMUTTER@BCIT.BC.CA

(604) 432-8858

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: "Roberta J. Barmore" <rbarmore@indy.net>
Subject: Re: Dratted Weller Soldering Iron!
Message-ID: <Pine.3.89.9512041130.A28149-0100000@indy3>

Hi!

I have to agree with Hank's comments about soldering guns; I only use 'em to take apart huge old solder-globbered connections. For real soldering, use an iron. I used a drugstore-purchased 75W iron for heavy work for *years,* and it always worked well. Guns have very little "thermal inertia," and tend to provide too much heat in too small a space.

Iron-plated tips and the fragile Weller WTCNP-series irons are *not* on my good list; they don't stay tinned well if left on (which the boys at work do, constantly) and can't be cleaned up once they've gotten messed up without destroying the impossible-to-replace tinning. Plain copper tips (as used on the cheaper Weller pencil irons) don't self-destruct and are cheaper to begin with, IMO. (Note that most folks don't agree; they probably take better care of their soldering irons!). But the cheaper pencil irons are *so* cheap that even if the tip breaks off--the most common failure mode--buying a new one is no burden. OTOH, the fancy "solder stations" are costly and fixing a broken one is usually more trouble than it is worth.

73,
--Bobbi

(Still busy--I should shut up long enough to get caught up!)

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: dsa@apollo.hp.com
Subject: Re: Dratted Weller Soldering Iron!
Message-ID: <m0tMgUx-000CvwC@knuth.mtsu.edu>

Well, I use a Weller "Pyro-Pen", butane soldering iron. I have had NO problems with it. It's adjustable AND doesn't blow out ESD sensitive parts ('course that's not a problem with boatanchors). The one catch to this soldering iron is the price. Around \$50. But, I find the price offset by the convenience of portability and the fact that it needs no cord. Great for soldering while on a tower, etc (provided no wind). Butane fills last several minutes, which provides enough for dozens of connections. Multiple tips convert it to a blow-torch or heat-gun (for shrink wrap, etc). Have only used two cans of butane refills in the six years I've owned this thing, so it appears pretty efficient.

-Dale

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: jml@spider.lloyd.com (Jim Lockwood)
Subject: DX-100 trivia, the sequel
Message-ID: <m0tMz0l-000TsoC@spider.lloyd.com>

Good morning, Gang,

I think I must have asked the wrong question yesterday. I thought there might not be *any* DX-100s that have "Daystrom-less" front panels. Wrong, wrong, wrong!

I've heard from no fewer than eight of you who have such early transmitters. Maybe these were from the first run of front panels. Maybe Heath used front panels like these for a long time. The question I asked was too limited in scope to turn up this kind of information.

So, that got me to wondering if I shouldn't be asking the opposite or at least a more comprehensive question. And that brings me to today's trivial pursuit.

Please take a moment to look at your DX-100 in the area of the front panel under the meter switch knob. What do you find printed there?

Known possible answers include:

Heath Company

and

Heath Company
A Subsidiary of Daystrom, Inc.

But maybe there are other variations in the DX-100 front panel. So, what does yours say in this area??????

Thanks again,

Jim - km6nk

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: "theporc.com" <porch@mm1001.theporch.com>
Subject: Execution failed
Message-ID: <199512042150.PAA10471@mm1001.theporch.com>

Message from UUCP on mm1001 Mon Dec 4 15:50:54 1995

Execution request failed:
rmail kevin@mm1001.theporch.com
Standard error output was:

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: Michael Covington <mcovingt@ai.uga.edu>
Subject: FETs vs. Tubes
Message-ID: <199512050328.WAA06896@aisun3.ai.uga.edu>

This is a bit off topic but does pertain to ways of making boatanchors work. Do any of you know of any published magazine articles on how to substitute FETs for vacuum tubes? (I'd think unit-to-unit variation would get you, but apparently people made them work.) I'm told there was something in QST in the early 1980s but can't find it. Thanks!

--

Michael A. Covington <http://www.ai.uga.edu/faculty/covington/>
Artificial Intelligence Center <><
The University of Georgia Unless specifically indicated, I am
Athens, GA 30602-7415 U.S.A. not speaking for the University.

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: andy@taligent.com
Subject: Free to a good home
Message-ID: <9512050050.AA23274@turtle.taligent.com>

Free to a good home,

A General Radio Model LR1 Hetrodyne Frequency Meter and
Crystal Controlled Calibrator.

This is WW II vintage test equipment, 155 lbs, 21 tubes, mounted
in a cabinet measuring 18 inches wide x 23 h x 18 deep.

To quote the manual, "the equipment is intended for
measuring the frequency of radio transmitters, or for setting
radio receivers to desired frequencies, in the range of
160 kc to 30 Mc. By harmonic extension, frequencies above
30 Mc may be measured."

The unit works as follows:

A 100 kc crystal calibrator (in a cute wooden oven) provides
the reference frequency. A multi-vibrator divides this down
to provide harmonics at 50, 20 or 10 kc intervals.

A variable frequency oscillator (or an external RF input)
is mixed with the calibrator output to provide an audio
beat note ranging from 0 to 5 kc. An audio low pass filter
removes higher frequency beats.

The audio signal then drives a flip-flop like circuit, built
from of a pair of thyatrons, that sends a uniform current pulse
to a large panel meter on each cycle of the audio beat note.

The panel meter is calibrated directly in cycles, from 0 to 10 kc.
The VFO frequency is the nearest crystal calibrator point
plus the value read from the meter. The meter itself has scale
marks every 100 cycles.

Condition: Fair, complete, unmodified, not working.

The cabinet is little dirty, but should clean up nicely. No major dings, and only a few scratches.

The meter glass is cracked.

For the most part, the insides are dusty but otherwise clean. The exceptions to this are two chassis surfaces that have significant corrosion. Fortunately, it's on the the top side and no wiring is affected. It looks like it can be cleaned without disassembly of anything.

The power cord is shot.

A photo-copy manual is included.

A Good Home?

I'll give this away to anyone who is seriously interested in breathing some life back into it. Otherwise, I'll probably hang onto it and maybe some year get a round tuit.

It's located in my office at work, in Cupertino, CA, where it serves as an end table and conversation piece. Pick up only.

Andy Heninger WB6MPT andy@taligent.com

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: aculbert@pps1-po.phyp.uiowa.edu
Subject: FS 73 MAGAZINES
Message-ID: <199512042120.PAA12902@ns-mx.uiowa.edu>

Nearing the end of acquiring a complete set of 73 magazines, it is time I dispose of the duplicates I have accumulated.

Following is a list of the magazines available. All have covers, some MAY have notations on the covers which previous owners noted articles of interest. I WILL split complete year sets. Asking \$1 per copy plus shipping.

My e-mail address is: allan-culbert@uiowa.edu
73 Magazines

1961	May June August December
1962	Jan Feb March Apr May Aug Sept Nov Dec
1963	Jan Feb Apr May June July Aug Sep Oct Nov Dec
1964	Feb Mar
1965	Jan Feb Mar Apr May June July Aug Sep Oct
1966	Aug Dec
1967	May June
1970	Complete
1971	Complete
1972	Complete
1973	Complete
1974	Complete
1975	Complete
1976	Oct Nov Dec
1977	Complete
1978	Complete
1979	Complete
1980	Complete
1981	Complete
1984	May June Oct
1987	Complete

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: aculbert@pps1-po.phyp.uiowa.edu
Subject: FS GRID DIP METER
Message-ID: <199512042125.PAA05781@ns-mx.uiowa.edu>

For Sale: Barker & Williamson Model 600 Grid Dip Meter s/n 1287 with the 5 coils in the original coil box. No Manual. Works and is in good appearance. \$40 plus shipping.

Al, K0AL

allan-culbert@uiowa.edu

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: Peter Gerba <pgerba@crl.com>
Subject: FS more stuff
Message-ID: <Pine.SUN.3.91.951204101443.27799A-100000@crl2.crl.com>

Drake 2B working on 80 & 40 (my guess is that the band switch needs cleaning) This recvr could use a bath but in fair/good shape \$85

Trio (kenwood) JR 500S, not a bad receiver, 80-10 +WWV (30m) working,
good/fair \$ 90

Heath QF1 Q-mult. fair/ good \$25

Eico 717 Keyer, very good/good working, with manual \$100

Hallicrafters, portable Model TW 1000 \$100

I'm looking for a Collins 75S3B with as many filters as I can find.

Thanks,

pete
pgerba@crl.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: MODSTEPH@ACS.EKU.EDU
Subject: RE Globe Scout paint ...
Message-ID: <01HYG361ZQPU003HZB@ACS.EKU.EDU>

Maybe there is something inherent in the design that calls forth
one's artistic attempts...

Although my brother K8SJ did have an iridescent pink Lysco sent
to him by some folks who appear here from time to time...

And it was his idea to find a source of Collins S-line cabinets and
paint them an assortment of rainbow colors, and offer them for sale at
Dayton and the like where we could watch the serious collectors cry...

Stu always did have a mean streak!

73, Al N5AIT
modsteph@acs.eku.edu

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: FRANCIS4@AppleLink.Apple.COM (Francis, Dexter)
Subject: GSB-100 Rocks
Message-ID: <818112363.5691646@AppleLink.Apple.COM>

Jim Lockwood sez:

>The "9 MC" carrier oscillator crystal is actually labled 9001.5 KC.
>Yet when I check its frequency with my counter, I read 8999.423 KC.

$9,001,500 \text{ Hz} - 8,999,423 \text{ Hz} = 2,077 \text{ Hz} = 0.023\% \text{ Low}$

>The carrier notch filter utilizes a crystal that is labled "9 MC".
>My counter says this one is oscillating at 9002.409 KC(!!!).

So:

Carrier Osc = 8,999,423 = 2,077 hz low (wanted 9,001,500)
Notch Osc = 9,002,409 = 2,409 hz high (wanted 9,000,000)

By swapping your crystals you get the following differences:

Carrier Osc = 9,002,409 = 909 hz high (wanted 9,001,500)
Notch Osc = 8,999,423 = 577 hz low (wanted 9,000,000)

Note also that the difference frequency is $909 + 577 = 1486 \text{ hz}$, very close to the 1500 difference between 9,001,500 and 9,000,000.

This gets you much closer to where everybody wants to be, but I suspect it's serendipity in this case. Obviously you want a carrier osc that's dead on and the notch filter to track it. Still it's better to be 1 kc off or less than where you were.

Remember that when running SSB the "center" of the signal that you're actually using to produce your audio is offset from the AM carrier frequency by the modulation frequency.

-df

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: Michael.J.Knudsen@att.com
Subject: Halli S-20R, Sky Champion
Message-ID: <9512050031.AA12150@bock.ih.att.com>

In my weekend haul of decently-priced BAs, I got 1.5 S-20Rs and one Sky Champion.

The Sky is to me the more exciting, cuz it's a "near antique" Halli, with the exposed silvery dial. It has a split-second logging scale in what looks like the S-meter in the center, with 2 or 3 big gears doing the tuning -- none of this dial-cord crap. Covers BC thru 18 MC in the first three bands, and then just for grins the 4th band continues into low VHF, I forget how high.

The logging dial is opaque black with translucent numerals and markings -- you don't realize how neat this looks till you turn it on. No vent holes in top, so no planetarium :-)

The front end is first-rate for the time -- 6K7 RF, separate 6J5 osc, and 6L7 pentagrind mixer (a tube made especially for separate osc and mixer setups, used in the better Zeniths). Judging from the alignment trimmer holes in the bottom cover, the RF stage even works on that top band. Well, it's in the circuit, I don't know yet if it works :-)

The radio plays and picks up well with my finger and body for antenna. Great sound thru the built in speaker, and even has a tone control. BFO works fine. No selectivity controls. Only one IF -- the lid doesn't open up to take a look, but Moore says so. Anyway, this is my first naked-dial Halliscratcher. It's missing the side horizontal chrome stripes.

Of its successor S-20R, I have one complete and fairly nice one, very clean inside, and a second with no knobs, fried-looking power trans (the seller said so too), loose audio output trans, lots of internal grime, and punched-in plastic over the "S-meter" hole which is now an uncalibrated (0-100) bandspread. The parts set was thrown in with the nice one on the deal. Haven't plugged it in yet.

I expect good performance with the 2nd IF stage. Front end is down to 2 tubes, but at least the converter is a 6K8, better than the token default 6A8 on HF.

I got the S-20Rs since the price was right and they look like little brothers of the SX-25 I once had.

The parts unit does have good chrome sides that will no doubt get up one night and crawl over to the Sky Champion, unless someone tells me they won't fit or look right. Also it has good dial cord on the BS dial, unlike the good one I'll use it as a guide to restring the good set with new dial cord.

When I get done I will put the parts S-20R up for grabs here. It will still be quite restorable for someone with the knobs and maybe a power transformer.

How desireable are these sets to the Halli collectors?
Was there a 20X xtal-filter version made (or should I figure it
out myself from Moore's, yep)?

And of course, anyone want to zerox me up some schematics and
service info? TIA es 73, mike k w9nrd

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: Terry Burge <terrybu@netman.ENS.TEK.COM>
Subject: Hallicrafter S-85 rides again
Message-ID: <9512042306.AA14086@netman.ENS.TEK.COM>

Gang,

You might remember I mentioned awhile back I had fried the trans-
former in my S-85 after having got half way thru with recapping it and
trying to find an audio distortion problem. Well, this weekend I finished
the replacing of all the wax paper caps and plastic 'oil filled' ones
and used a junker SX-71 transformer to get the old girl working again.
Found a couple of resistors that were out of tolerance too and replaced
them as well...mostly in the 6K6GT final audio amp section. The thing
actually works again and while the audio isn't exceptional, it is much
better.

Made me fill like I was actually getting to the point where I
could fix a fairly serious radio. I haven't had a whole lot of luck
improving the sensitivity on my two 'working' SX-71's,...but I sure
am getting familiar with aligning them repeatedly. Something tells me
there is a knack to this alignment stuff...'Why does the signal in the
IF stage increase in amplitude but the audio modulation decrease? That's
one I'm working on. And I'll tell you, that 1st detector stage (2.075 Mhz)
is really touchy. Isn't it amazing what one little tweak will do to the
performance of a SX-71?!

Well, atleast I'm having fun. Look how that VR-150 glows in the
dark. What a pretty violate light...Oow, that's hot!

Terry
KI7M

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: Richard Brisson <rbrisson@CSE.DND.CA>
Subject: Help with RT-159B/URC-4
Message-ID: <199512051739.MAA09010@manitou.cse.dnd.ca>

A good friend of mine at William-Mary has the following question:

Would someone know the supply voltage for a 1950's military pilot's portable transceiver RT-159B/URC-4 ? It's in an Al cast, olive-drab case about 7" x 3" x 2". The manual is with it but no advice on the battery voltage (but a neat warning that the battery contained about a pound of mercury!) It has a dipole antenna that can be set to VHF size or UHF size. This one is tuned to 121.5 and 243.0 MHz. Are those still distress frequencies?

This thing is in mint condition. It has one miniature tube, probably the output, and six sub-miniature tubes.

If you are able to help, please cc or send directly to:

WELSH@WMHEG.PHYSICS.WM.EDU

Thanks, Richard.

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: David Adams <dave@flowserver.stem.com>
Subject: Info on S-38
Message-ID: <9512042245.AA14444@flowserver.stem.com>

Well, everytime I go to a hamfest of any sort. SOMEBODY has an S-38 for sale and I always want to buy it (What can I say...I'm a halli freak). Well, I finally picked one up at the Livermore fest. Does anyone have a manual or xerox copy I can get my hands on? I suspect the thing would suffer from a tune up (and has a BIG hum problem...I suspect I need to see about blocking that AC).

Also, After I bought the thing sans a knob or two, I turned to my friend and confidentially declared I had the missing knobs in my "spare halli knob box" at home. Nope...I probably have any other Halli Knob known to man, but not that kind. If anyone has a spare band tuning and cw pitch knob lemme know.

Dave

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: "Gable, Edward M" <emg@rfpo2.rfc.comm.harris.com>
Subject: RE: Info on S-38
Message-ID: <30C4633D@smtpgate.rfc.comm.harris.com>

<snip>
>Does anyone have a manual or xerox copy I can get my hands on? I
>suspect the thing would suffer from a tune up (and has a BIG hum
>problem...I suspect I need to see about blocking that AC).
<snip>
> If anyone has a spare band tuning and cw pitch knob lemme know.
Dave
++++++
Dave: your hum is most likely a bad filter capacitor in the power
supply. I may have ur needed knobs and a schematic.
PLEASE put e-mail addresses in text as many many
providers (mine) strip off header info. If you send me
your e-mail adress I'll contact you directly. 73, Ed K2MP
emg@rfc.comm.harris.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: Bill Smith <bilsmith@crl.com>
Subject: RE: Info on S-38
Message-ID: <Pine.SUN.3.91.951205102006.26949D-100000@crl111.crl.com>

Edward M Gable wrote:

>
> <snip>
> has a BIG hum problem...I suspect I need to see about blocking that AC).
>
> Dave: your hum is most likely a bad filter capacitor in the power
> supply.

S-38's had filter capacitors that have an amazing ability to reform. Just
play it for 5 minutes or so. It will hum like a bandit, get louder, get
very loud...

then.. and then? Uh Huh! Then it gets Quieter again! Play a little
longer and it is just fine. I have never observed this effect in any
other radio.

73 de Bill, AB6MT
bilsmith@crl.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: Michael.J.Knudsen@att.com
Subject: KQ4BY, Larry, are you there?
Message-ID: <9512052039.AA12404@bock.ih.att.com>

Sorry for the BW, but I've been trying to reach Larry Keith for a month at

lakeith@wrdis01.robins.af.mil (Larry Keith)

to close a deal on a couple of items he was selling me, but have got nothing back. One msg bounced a while ago, but I remailed it and it seems to have gone thru. Latest attempt bombed when the mailer went thru host "gwc".

I haven't seen him on the BA List lately.
Anyone know if he's still on the net?

--Thanks, mike k w9nrd knudsen@ihades.att.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: Michael.J.Knudsen@att.com
Subject: Re: LF/MF Voyeurism
Message-ID: <9512051653.AA12192@bock.ih.att.com>

Reminds me of a story someone told me by email a couple years ago. He was driving to visit some relatives (parents?) in the country, and had a Blaupunkt car radio that tuned the LW band. He's fooling with it and gets this soap opera drama with a man and a women in a heated argument. But the voices sound familiar, just like his relatives. He's only half a mile short of their house, and the signal improves as he approaches the house. He pulls into the driveway and the drama suddenly ends with "Joe's here! Now be nice!"

Half a mile of power line makes a pretty good tx antenna 73, mike k w9nrd
PS: Most of those baby monitors and intercoms are up on 47-49 MHz now.

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: w0ogh@ix.netcom.com (Larry Godek)
Subject: Lights in the night
Message-ID: <199512050126.RAA20710@ix11.ix.netcom.com>

I remembers back when I was a k'novice, lessee about 1958 I do believe. My dad being a G.I. brought me home a BC-779 from the mars station at the mountain top site he frequented. (on loan of course). The he helped me fix up a power supply for the old TCS transmitter and I moved from the bedroom to the garage. Fortunately we never did get totally unpacked from the last PCS move. There was plenty of boxes still

setting in the garage so I made me a little office over in the corner. 1 car garage and half of it being boxes didn't leave much room for anything else. Well he sez "you put up the antenna yourself". Being out in the sticks of southern Cal, I had a few 20 foot pine trees for support. So I strung out a "long wire". You kow the kind. A piece of wire that will go as long as it is.

Finally I got to fire up the rig. Course the novice ticket was at hand just in case the FCC inspector happend to drop by in the middle of the night. Couldn't have the lights on in the garage cause then the folks would know i wasn't in bed where I was supposed to be. The darned TCS clanked everytime you keyed it on cw. Always wondered how Dad knew I was out there. Hmmm. No light from this mechanical beast. But the dear old BC-779 without covers sure did light up the place nice. Cold out there to, but with the light from the dial lamps I could tune the tx and work the guys across the state line like mad. (Real DX). Nope, there wasn't any heat but the light from the receiver and the beeps and boops from the receiver made the cold at night very tolerable.

Never did get WAS but sure could get lots of current indicated on the antenna current meter.

Larry W00GH

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: "Stanley L Flegler" <flegler@pilot.msu.edu>
Subject: RE: Looking for R390! crystal...
Message-ID: <199512051454.JAA18440@pilot07.cl.msu.edu>

The 200 khz calibrator crystal in my R-390A was bad when I bought it. Fair Radio has them for \$10.00. 73 Stan, K8RPA, flegler@pilot.msu.edu

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: BC348@aol.com
Subject: Looking for R390A crystal...
Message-ID: <951205084534_64567526@emout05.mail.aol.com>

Greetings all from near Micaville, Al. (where mica was once mined for firebottles). I am looking for a 200KC calibrator crystal for the R390A, mine has gone south. So if anyone has a spare from a junker let me know.

73, Bill, AC4LC. (got new ricebox computer and new screen name...old name=billo88)

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: "Integration Area" <integrat@usr.com>
Subject: Re: LR-1
Message-ID: <9511058181.AA818179319@robogate.usr.com>

Hello:

The LR series was the standard frequency calibrating equipment on capital ships (battleships, carriers, etc.), and is very accurate - far more than the LM series.

Like many bits of WW2 Navy gear, the LRs stayed in service quite some time after the war.

William Donzelli
integrat@usr.com

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: Mic wanted
Message-ID: <Pine.ULT.3.91.951204225217.990A-1000000@admin.aurora.edu>

Anyone knowing the whereabouts of a RCA 44-BX or RCA 77D mic please let me know.
TNX de Bob, K9EUI (broehrig@admin.aurora.edu)

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: parker@sol.med.ge.com (Timothy Parker x7-4463)
Subject: Model TBY-2 info??
Message-ID: <9512051501.AA02308@pacific.med.ge.com>

Hi all,

I am forwarding a request for information for a friend of mine.
He sent me the following message:

>

>Anyway since your on the boat anchor list would you put up a message
>for me ? I have this old Navy radio that appears to have been used by
>a ham at one time. It's a Model TBY-2 Type CRI-43007. Would you just
>put a general question up about any info on this thing. It looks like

>it 28MHz to 80 MHz. Interesting but I don't want to put any effort into
>it if it's not worth it.
>

Can anyone help provide any information about this radio? Whatever you
can provide would be very welcome.

Thanks,

Tim Parker KB9KIT

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: "Integration Area" <integrat@usr.com>
Subject: My mail
Message-ID: <9511058181.AA818179328@robogate.usr.com>

I am having some trouble sending messages out, but I am receiving them fine
(note that the some of the header to my post about 1920's transmitters was
mangled). If you expected a reply from me (perhaps about those aircraft
rails) and did not get one, send me a note, and I will try again.

William Donzelli
integrat@usr.com

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: Michael.J.Knudsen@att.com
Subject: National 270 rx
Message-ID: <9512042245.AA09800@bock.ih.att.com>

Over the weekend I picked up a few BA rcvrs at prices that had me
checking the year on my digital watch, like maybe I'd fallen
back into the '70s. Well, maybe not that cheap.
I'm not looking to sell or trade these just yet, but just fishing
for anyone's comments or memories.

One is a National 2-70 with little matching speaker.
This is ham-only, 80 thru 6m, slide-rule, and safe-style knob,
"cosmic blue" panel and the trademark National diamond-shaped bandswitch
knob. It's dual conversion with some interesting selectivity
gadgets -- the "ferrite filter" that switches in various Rs and Cs
to get various BWs and center freqs, plus another L-C tunable
notch filter, all running around 230 KC. Also has built-in 100KC
calibrator, tho it doesn't make it to 50 MC.

I got the complete manual (user's, theory, and repair/alignment) with it.

Interesting feature is the flip-down front foot, as found on modern test gear. S-meter is small and cheap, not the famous National red & yellow.

National could've had a really nice \$179 rx here, but for two problems. First, Moore says they charged \$249. More important today, on SSB/CW the 2nd IF is used as the "product detector" (actually a zero-bias pentode mixer). So, on SSB/CW you not only lose an IF stage, you don't get any AGC or S-meter action.

To me, "product detector" implies that the detection is done separately from the AGC diode so you can still enjoy the advantages of AGC on SSB, and have S readings to base your lies on :-)
RTTY jocks know what I mean.

You don't lose much selectivity, tho, since those two filters are ahead of the 2nd IF.

My rx works, tho not smoothly yet. Even on 6m I can peak the noise with the antenna trimmer. SSB sounds good (and loud!) on it but is hard to tune in. Dial drive is by pinch roller a la Hammarlund 129X -- cheap but smooth and reliable. A dial cord from the condenser shaft then tries to push the slide rule pointer across the dial, but that sticks and gums up the tuning. Clean & oil time. Calibration adjustment knob shifts the whole dial scale left and right, something I hadn't seen before.

Antenna input is by either terminal screws or -- ta daaa -- RCA jack.

Overall, a very interesting early '60s RX, good attempt at getting a lot of performance out of 8 tubes plus rect and VR. If only they'd put yet another 6BE6 for a PD....

Anyone ever use of these? Got a magazine review of it?
Tnx es 73, mike k w9nrd

PS: Another posting follows re S-20R and S-20 Sky Champion.

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: List Admin/Owner BoatAnchor Mail List <listown@jackatak.theporch.com>
Subject: Newsgroup versus list
Message-ID: <9512051759.aa13312@jackatak.theporch.com>

Gang-

When I first posted my request that everyone please spend a bit more time editing because of the increase in carelessness, which in turn impacts the mailer heavily, I did not expect to trigger a mass jump in the air and another round of discussions about moving the list to a newsgroup!

On Mon, 4 Dec 1995, List Admin/Owner BoatAnchor Mail List wrote:

> ...there are now SEVEN HUNDRED SEVENTY FIVE of you...

And, just about exactly 12 months ago, there were *only* 289 subscribers, so we have grown *significantly*

> ... every BYTE of message coming to the BA list

> generates 1K of email load... that means an extra 1000 or so bytes,

> multiplied by the subscriber list, equates to almost ONE MEGABYTE!

Last year, we moved 356 messages in December to 289 people; in October 1995, we had 720 (average) subscribers and moved 1,900 messages through the list for a delivery load around 1,300,000

ALL I was asking was that folks be a tad more considerate of everyone and keep the electronic "editing pencils" sharp!

Jeff suggested:

> Hmmm, might it be time (again) to discuss becoming a newsgroup on

> UseNet?

I am heavily biased *against* this, and not at all for the reasons you might think... mostly I would opt for the status quo because we have a community here, and no such quiet and friendly place exists in the r.r.a.* hierarchy...

If the list subscriber decide to take the *topic* to the UseNet, I shall read it, but I will also keep this list open and running for those who prefer a somewhat more antiquated, and totally in character email list for discussing boatanchors. There *will be* a mailing list for boatanchor folks...

> You could run a "email gateway" for those without

> UseNet access if you so desire.

Brian Kantor would probably grumble like hell and pick it up on his re-mailer system... I will not.

I probably will have to take the list to a subscription basis in January, anyway, so this discussion may have come of age...

I plan to make the list available for a nominal fee, say \$15 or \$20 per year... Posting submissions would probably be limited to subscribers to keep annoying things off the list... That is less than a magazine subscription, so it should not hurt anyone or shut anyone out for financial reasons...

Similar charter and rules would prevail as are in place and evolving now, and standards of behavior and etiquette would be expected and enforced... Then, as NOW, the list exists for folks to enjoy, and it is a PRIVILEGE to be able to read it...(at least *I* think it is ;^) not a right... the subscription idea is to cover the costs on a much more equitable basis than today, where Phil and I are bearing the brunt with a few kind and generous folks offering up their share.

None of the details are in place, and this is in the discussion stage. Since it is pretty far afield, I would really like to take much further discussion of the BA list... perhaps to a mail reflector I can quickly set up for just this purpose, so that those with strong opinions and feelings can express them without impinging upon the entire BA list...

PLEASE... comments by email to: listown@jackatak.theporch.com and NOT to the list...

Thanks for letting me air this one out...

--

73

Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)

- - - BoatAnchor Mailing List Owner - - -

listown@jackatak.theporch.com-"Plus ca change, plus c'est la meme chose"

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995

From: MEC <danmec@inet.uni-c.dk>

Subject: Old catalogues

Message-ID: <Pine.3.89.9512042041.A16878-01000000@inet.uni-c.dk>

Harrison Electronics 40th edition
 41

Harvey Radio Co 1964

All in excellent condition.

These have been collecting dust on my bookshelf and i need the space for other litterature.

Any offers ?

73 Rag OZ8R0

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: "Barry L. Ornitz" <u856010@eastman.com>
Subject: Prepping aluminum for painting
Message-ID: <Pine.ULT.3.91.951204195637.21214B-100000@dua150.kpt.emn.com>

Greg, KX4R, mentioned using lye (sodium hydroxide) to etch aluminum as a preparation for painting. This does work quite well, but I have never found it necessary to leave it etching long enough to get a black coating. The reaction produces aluminum hydroxides and hydrogen (very flammable) so do this outdoors with plenty of ventilation and no ignition sources around. I have generally found 5 to 10 minutes to be enough. As Greg says, do not breathe the fumes and wear eye protection and rubber gloves.

The caustic actually serves two purposes here. First, it thoroughly cleans the surface of the aluminum of any oil or grease. Secondly, it etches the surface allowing a good bond with the primer. Just be sure to completely dry the aluminum before painting it. Try to not touch the surface if possible as it will readily pick up oils from your skin. In fact, baking the panel after etching is a good idea. This not only dries out any residual moisture, it can chemically seal the surface too. Let it cool before priming.

I agree with Hank and others who suggested zinc chromate primer. Unless you happen to like that ugly chartreuse color, you will need one or more final coats of your desired color paint. Just remember to let the zinc chromate primer dry thoroughly before applying the top coat(s).

In situations where I have not been able to chemically clean and etch the surface, I have found degreasing with solvent vital. I also tend to scratch the surface well with a Scotchbrite scouring pad to roughen it which helps the paint adhere better. A zinc chromate primer is still advised.

I have had fairly good luck with epoxy paints with aluminum too.

73, Barry WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: Andy Wallace <wallace@mc.com>
Subject: R-390A ant trim "dot"???
Message-ID: <9512051946.AA01640@training6>

Along with Tom's question: on the 390As I've owned, the

magic "red dot" on the gear which is supposed to tell you where the set point is has been worn off or faded. How can I tell if I have the cap at 50% without the dot being visible? Disassembling the housing looked like you'd have to pull the chassis.

--Andy
wallace@mc.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: Michael.J.Knudsen@att.com
Subject: Re: R-390A ant trim "dot"???
Message-ID: <9512052013.AA12343@bock.ih.att.com>

Probably the easiest way to relocate the "red dot" doesn't sound easy, but is. Tune in a steady signal, like a BC station. Peak the antenna trimmer and note whether you get one peak or two. If just one, then you know the cap is fully open or closed, so 90 degrees off on either side is now known (it doesn't matter which side).

If you get two peaks, as a well-aligned rx should, note their positions carefully on the knob or gear. Halfway between the peaks is fully closed or open. Again you know where 90 is relative to that.

If you aren't getting a dual peak, and want to know whether the cap is fully open or closed, take your Bristol (Allen works too due to the low torque involved) and drive the appropriate RF slug rack antenna slug (nearest the front panel) in whichever direction improves the signal. Keep going past the peak. Now you should have twin peaks (tm) on the trimmer knob.

If you screwed the slug in to improve things, then the trimmer was fully closed, and vice-versa.

If your trimmer cap is shorted out over most of its rotation, you'll have to fix that first. Unless I'm overlooking something, sad to say you'll have to pull the front panel, and maybe even the RF deck (horrors), and tear into the little can.

Be sure to make up a shopping list of lots of other chores you can do while you have the set apart! At least clean and lube. 73, mike k w9nrd

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: Bill VanAlstyne <bill@starquest.com>
Subject: Re: R-390A ant trim "dot"???

Message-ID: <199512052355.AA18190@cruz.com>

At 03:47 PM 12/5/95 -0600, Michael.J.Knudsen@att.com wrote:

>If your trimmer cap is shorted out over most of its rotation, you'll have to
>fix that first. Unless I'm overlooking something, sad to say
>you'll have to pull the front panel, and maybe even the RF deck
>(horrors), and tear into the little can.

Just as an aside to anyone who hasn't pulled an R-390A front panel before -- it's not nearly as bad as it looks! The first time I took mine off I felt like I was walking on razor blades and thumbtacks, but after removing it and replacing it successfully a couple more times, it's a piece of cake. It can be done easily in about three minutes, with a power screwdriver and your ever-handy Bristol spline tool. :) The manual's procedure is pretty accurate.

Two caveats, however:

One: Place the chassis on a couple 2x4s so it is elevated above the workbench, and ensure there is plenty of room on the bench in front of the receiver for the panel to lay out. I think the manual says to do this, but it's the kind of thing you tend to discount as being unimportant.

Two: My NAVSHIPS manual doesn't mention this one thing that is quite crucial: there are a couple cable clamps near the bottom of the panel. Unless you remove these, you'll never get the panel off, because the cable harness doesn't stretch enough to permit it to come all the way off the KC and MC shafts. (This may vary with different manufacturers -- my set is a 1960 EAC.)

P.S. -- I've yet to pull the RF deck -- so far, haven't had to. But I have had to deal with bandswitch synchronization woes, and loose, slipping gears, so I got an education on how that whole mechanical contraption works. :)

Bill VanAlstyne, N6FN
bill@starquest.com
Aptos, CA

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: "Stanley L Flegler" <flegler@pilot.msu.edu>
Subject: R-390A Info on Rec.radio.shorwave
Message-ID: <199512051711.MAA14159@pilot04.cl.msu.edu>

I just read some interesting articles on rec.radio.shortwave that should be of interest to all boatanchor people. One article describes how on a recent DX expedition an R-390A outdid the Drake R8A and Watkins Johnson HF-1000's when the going got tough! Music to my ears! 73 Stan K8RPA, flegler@pilot.msu.edu

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: "Integration Area" <integrat@usr.com>
Subject: Re: Radio transmitters -- 1920s
Message-ID: <9511048181.AA818121765@robogate.usr.com>

The three companies you mentioned - GE, WE, and Westinghouse - did make transmitters for the Navy. *History of Communications and Electronics in the United States Navy* is an excellent reference book. I am sure that much of the information in that book could be used in your studies, as it mostly covers the years prior to 1930. The U. S. Navy was building one of the largest radio networks during that time, thus had quite a bit of influence on commercial radio technology.

Incidentally, I have technical manuals for two old Navy sets. If you want, I will copy bits for you (or any other interested people). One, for model TU-4, covers a 1928 edition of a mid-1920s low band 2 kW transmitter, and the other for model TAD, a smaller MF set from 1928. Both were produced by GE. Although cheesy compared to the full blown manuals from later years, the information might give you some idea of the technology behind the front panels.

William Donzelli
integrat@usr.com

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: "Allan Fritsche" <fritsche@msn.com>
Subject: Re.Sweeps and Like
Message-ID: <UPMAIL03.199512050037420006@msn.com>

Thanks, Roberta for what I thought I knew all along. In any discussion no matter what topic, you can make things as complicated as you want. The plans I have call for two IF freq's that should encompass 90% of receivers. That's the one I will build. I do now have a good list of all known IF freq's that I will put together and send back to all, if only for saving in an obscure folder of your choice.

Thanks for all who replied.
Truely
Al Fritsche

fritsche@msn.com
attmail!fritsche

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: Frank_Scutch-EFS003@email.mot.com
Subject: Sale Items
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>

Hi Fellas:

While digging in my store room for Christmas lights this weekend, I somehow promised the xyl I would sell off a couple of things. So here goes... give me a call at home in the evening or email if you interested.

Drake RV-3 VFO -\$70
Has the resistor mod for use with the TR-4.

Drake RCS-4 Remote Coax Switch \$85
Purchased a couple years ago but just never used it. It had previously been used outside.

Drake HS-7 Headsets \$45
Matching headset for the TR-7

Drake DC-4 Power supply - \$75

Drake Low Pass Filter- Copper case -\$10

B&K 747 Transconductance Tube Tester \$65
I tried it this weekend and is in average shape -definatly not mint. Seems to work but has broken case at the hinge.

Shure 707A Mic w/desk stand \$25

Autek QF1A Audio Filter - Looks new. \$45.

Frank, WB4AYJ
(h) 305-472-9474
efs003@email.mot.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: n5off@w5ddl.aara.org
Subject: Say "No" to Newsgroup
Message-ID: <241435@w5ddl.aara.org>

Notwithstanding the junk that gets on newsgroups, my internet service is simple mail only, so a newsgroup (instead of mail list) would force me and many other packet gateway hams to get a new provider.

Thanks for reading.
Tom

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: dma@IslandNet.com (Jan Skirrow)
Subject: Seattle/Portland BAs
Message-ID: <m0tMmZj-0005WDC@island.amtsgi.bc.ca>

Any good places to look for BAs in the Seattle to Portland corridor?

Thanks

Jan Skirrow, VE7DJX
dma@islandnet.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: "Mark Glusker" <glusk@mechcad3.engr.sgi.com>
Subject: Re: Stumped ... 2-4mc not working on R-390A
Message-ID: <9512051152.ZM11245@mechcad3.engr.sgi.com>

Tom writes:

> Got my R-390A . . . It works well on all bands except I only
> get static on the 2-2.99 and 3-3.99 bands.

and Jan replies:

> I had a similar problem with my 390A. It turned out the problem
> was in the RF bandswitch.

I had a similar problem as well, with a few complications. I would get the RF bandswitch properly synchronized, put it all back together, and after several band changes it would slip again. After repeating this several times, I discovered a crack in the gear clamp on the RF bandswitch gear. A new clamp from Fair Radio (that was a different, more durable looking design than the original) solved the problem once and for all.

Be careful not to over torque those screws!

Mark Glusker, glusk@sgi.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: PGWH83A@prodigy.com (BOB FRIESS)
Subject: Surplus Conversion Manual
Message-ID: <013.06122652.PGWH83A@prodigy.com>

-- [From: Robert Friess * EMC.Ver #2.10P] --

Does anyone have a copy of the "Surplus Conversion Manual" that they would be willing to sell. This book was published in the late 50's or early 60's and somewhere along the line my copy was lost.

73,
Bob, N6CM

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: Re: Surplus Conversion Manual
Message-ID: <Pine.ULT.3.91.951205122147.3374A-1000000@admin.aurora.edu>

There were several volmes of it I think. Do you know which you want?
I may have an extra of one of them - I'll let ya know
73 de Bob, K9EUI

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: SP600@aol.com
Subject: SURPLUS INTERNET ADDRESS
Message-ID: <951204183840_124853424@mail04.mail.aol.com>

A few weeks ago someone posted a place in Canada that was a electronics surplus outlet. They also posted there Internet address. I lost the address could someone
PLEASE e-mail with it.

Many thanks,

CHARLES P JEDLICKA N9SOR

\\\\\\\\\\\\\\\\HAMMARLUND COLLECTOR\\\\\\\\\\\\\\\\\\\\

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995

From: Jake Hellbach <kk5hy@accesscom.net>
Subject: Re: SURPLUS INTERNET ADDRESS
Message-ID: <199512050303.VAA17943@uro.theporch.com>

Charles,
The URL is: <http://infoweb.magi.com/~testequi/>
They have just updated there list at the end of November and have a great deal of stuff. They also have some tubes that have just been cataloged. Sometime soon I may have to pick your brain on a couple of sp-400's I'm restoring.

73 and happy holidays,
Jake KK5HY

At 06:11 PM 12/4/95 -0600, you wrote:
>A few weeks ago someone posted a place in Canada that was a electronics
>surplus outlet. They also posted there Internet address. I lost the address
>could someone
>PLEASE e-mail with it.

>
> Many thanks,
>
> CHARLES P JEDLICKA N9SOR
>
> \\\\\\\\\\\\\\\HAMMARLUND COLLECTOR\\\\\\\\\\\\\\\\\\\\\\
>
>
>
>

Email via: kk5hy@accesscom.net
Check out the Westside ARC Web page at:
<http://www.accesscom.net/~kk5hy>

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: jproc@worldlinx.com
Subject: RE: SURPLUS INTERNET ADDRESS
Message-ID: <Chameleon.4.01.2.951204110455.jproc@jproc>

>A few weeks ago someone posted a place in Canada that was a electronics
>surplus outlet.

Charles,

Its W.J. Ford Enterprises in Smith's Falls, Ontario. E-mail address is:
testequi@magi.com.

The Web site is: <http://infoweb.magi.com/~testequi>

Regards,

~~~~~  
Jerry Proc VE3FAB  
E-mail: [jproc@worldlinx.com](mailto:jproc@worldlinx.com)  
Radio Restoration Volunteer  
HMCS Haida, Toronto Ontario  
~~~~~

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: Michael.J.Knudsen@att.com
Subject: Re: Sweep Ckts gone crazy ?
Message-ID: <9512042201.AA09740@bock.ih.att.com>

You overlooked the First Commandment of engineering --
"Standards are great! Everyone should have at least three of 'em."
Certainly applies to IF freqs.

"my" idea (Hickok's, Clough-Brengle's, etc's) idea of a fixed sweeper
with markers, plus a mixer, could be done in solly state, tho I don't
knwo how to build a good SS mixer, tho any transistor makes a bad one,
such as found in any transistor radio.

Markers aren't necessary for aligning a BA, but would be *nice* to
show you how much BW you're looking at. Maybe a single pair of
markers at switchable 1, 2, 3, 4, and 5 KC from center? And of
course the center freq too, optionally.

73, mike k w9nrd

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: "Allan Fritsche" <fritsche@msn.com>
Subject: Sweeps and Misc - Mike
Message-ID: <UPMAIL03.199512050037440880@msn.com>

Mike, Thanks for your inputs to Sweeps and Boats. Iam planning to
build one that will cover 455 and 1650 KC and see how it works, No input
for markers at this time. I just would like to see a pattern on output like
I did 30 years ago in the service. btw, Is it better to align a receiver in
its case

or pulled apart. It probably depends on the manufacturer, Hallicrafters provides holes on some receivers for the slugs, low end, but no holes for the padding caps, what gives.

See Ya
Al Fritsche
fritsche@msn.com
attmail!fritsche

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: "Jonathan W. Hays" <jonathan@Hays.ORG>
Subject: SX-17
Message-ID: <Pine.3.89.9512041616.B1168-0100000@linux.hays.org>

Lovers of all things old and beautiful-

As I told you before I have a halli SX-17, I would appreciate any info on it...and if anyone has a bottom plate for it, please contact me, because that is the only thing wrong with the rig, it is missing that plate...I would also like to know its value..

Thanks-
-Jonathan

Jonathan W. Hays xx Member of SYX xx X-Phile xx Monty Python Freak xx IRCer
*nick: Guano xx Rock music lover xx Steeler Fan xx Smashing Pumpkins Fan!!**
*KC7GPT xx Lover of all things stupid, silly, or weird xx Hater of RAP!*****
*****jonathan@hays.org*****http://www.hays.org/~jonathan*****

THE x -files {THE TRUTH IS OUT THERE} I want to believe

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: Michael.J.Knudsen@att.com
Subject: Re: SX-43 info needed
Message-ID: <9512041655.AA09615@bock.ih.att.com>

OK. Well, I certainly know that "second detector" is the good old term for

a rea detector (as opposed to mixer). But is looks like Halli may have muddled the semantic waters further, by saying "second detector" but really meaning "second mixer". If so, then the final AM didoe detector should be a "3rd detector" but they probalby just say "AM detector."

My Meissner Analyst has one section of low-sensititivy signal tracing intended to check whether local oscillators are working. Maybe I'll just snoop around the SX-42 (if I ever get it upside down) and see if any extra oscillators are running on VHF AM.

You could hook a scrap of wire to a general coverage RX, hang it over your SX-42 chassis, and hunt around 10.7 +/- 455 and see if there's a 2nd conversion going on. I expect you'll find it on the 43, but I don't expect it on my 42.

Oh well, at least the 42 has a neat-o tuning dial :-) 73, mike k w9nrd

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: Conard Murray <cfm@tntech.edu>
Subject: TCS tx, BC221 wanted
Message-ID: <01HYEZOV100294FWXJ@tntech.edu>

-- [From: Conard Murray * EMC.Ver #2.5.02] --

Hello all,
I am still <groan> looking for a TCS transmitter. Any version as long as it is all there.
I also need a BC221/LM to keep me above 1800 KHz. If anyone can part with one, please e-mail me.
Thanks and Happy Holidays!
Conard, WS4S
cfm@tntech.edu

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: Vlad Dvorkin <dvorkin@pcs.mot.com>
Subject: Teletype & telegraph equipment wanted
Message-ID: <199512051628.LAA07953@iron65>

Good morning BA,
This posting is for a friend.

Wanted:
Kleinschmidt "Teletype" and Multiplex Telegraph Equipment and literature.
Please respond to Tom Kleinschmidt 708-255-8128 or send e-mail to Vlad.

Happy Holidays,
Regards,
Vlad
P.S. I am still looking for German WWII receivers!

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+-----+
| Vladimir Dvorkin          |                               |
| CableComm - Multimedia Group |                               |
| Motorola, Inc.           | Phone:          (708)632 5093 |
| 1501 W. Shure Drive       | Pager:          (708)576 0295 11163 |
| Arlington Heights, IL 60004 | Email:          dvorkin@pcs.mot.com |
|                               | Fax:            (708)435 0013 |
+-----+
```

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: Michael Covington <mcovingt@ai.uga.edu>
Subject: Testing tubes with Tek 575 transistor curve tracer
Message-ID: <199512050216.VAA06597@aisun3.ai.uga.edu>

Assuming I develop an acceptable method of testing tubes on the Tek 575 (which seems likely), I'd like to write a magazine article about it. What magazines might be interested? I suspect that Electronics Now (for which I'm a regular writer) wouldn't want it; it's much too esoteric for them. Are there magazines about tube audio and/or antique radio that would publish an article with illustrations (photos) and might even pay the author? What is Glass Audio like? (I haven't seen it.)

--
Michael A. Covington <http://www.ai.uga.edu/faculty/covington/>
Artificial Intelligence Center <><
The University of Georgia Unless specifically indicated, I am
Athens, GA 30602-7415 U.S.A. not speaking for the University.

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: "Integration Area" <integrat@usr.com>
Subject: The real stuff
Message-ID: <9511048181.AA818127055@robogate.usr.com>

I was contacted a few months ago about this set, and was given some decent photos of the unit. I never figured out what it was!

I took the information around to the local hamfests, but it stumped everybody. I suppose I should have posted something on the list.

If anyone wants the photos (maybe to circulate around amongst prospective

buyers), let me know and I will get them out.

William Donzelli
integrat@usr.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: N4HUR@aol.com
Subject: Transformer info needed
Message-ID: <951205172645_45464641@emout05.mail.aol.com>

Hi gang!

Can anyone please provide me with the manufacturers data for the following two transformers?

UTC CG-422
UTC CG-126

They are very nice looking, potted in round metal cans, and would probably be very useful if I just knew their ratings, who knows they may be modulation or driver transformers--nah I'm not that lucky.

Bob N4HUR n4hur@aol.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: "Barry L. Ornitz" <u856010@eastman.com>
Subject: Tube Basing Adhesives
Message-ID: <Pine.ULT.3.91.951205174712.27543C-1000000@dua150.kpt.emn.com>

Tom Clark wrote:

> My experience is that the glue in octal and other small based tubes is
> brown and crumbly. I always assumed it was some sort of hide glue or
> mucilage or something fairly low tech.

> Digging out some dead Christmas bulbs from the strings last weekend, I
> noticed that the glue in the bulbs was still the same sort of brown
> crumbly material.

This is consistent with the Resol cement formulation which is two to three parts clay, whiting, or calcite in one part Bakelite varnish. It cures at elevated temperatures. If it were hide glue or mucilage, it would soften with the addition of water - which I have never seen. The filler is there to reduce the cost and it would make the material rather crumbly. A dye indicator such as malachite green is sometimes added.

This will turn brown above 150 C when some ammonia is generated by the curing of the resin. I have seen incandescent lamps where part of the base glue was green. Resol IS low-tech!

Has anyone really had problems mailing to me at <ornitz@eastman.com>? Remember you cannot use the reply function of mail and get this address.

73, Barry WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: jmartin@hrlban1.aircrew.asu.edu
Subject: Tube tester article
Message-ID: <SA39+dw3lka@hrlban1.alhra.af.mil>

Michael Covington wrote:

Assuming I develop an acceptable method of testing tubes on the Tek 575 (which seems likely), I'd like to write a magazine article about it. [snip]
What is _Glass Audio_ like? (I haven't seen it.)

=====

Rumor has it the golden ear esoteric audio crowd drove up prices of 570s to their current stratospheric level. If tubes can be tested using a 575, I wonder where prices of 575s will go. Still, this sounds like a very interesting project, and I think a lot of us would look forward to hearing about it. I would.

73, John Martin

jmartin@hrlban1.aircrew.asu.edu

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: dma@IslandNet.com (Jan Skirrow)
Subject: Re: Vibrator for SR-42A...
Message-ID: <m0tMi9g-0005b0C@island.amtsgi.bc.ca>

>I have a friend who would like to find a vibrator for his
>Hallicrafter SR-42A two meter AM radio so that he can run it off of
>12 Volts DC. Anyone's junk box have a 12 V. vibrator living in it just
>itching to get some use? Failing that search, does anyone know where one
>might acquire a <gulp> solid state substitute?

>

>-----
>Ken Harrison --- harrisok@vax.sonoma.edu --- Amateur Radio: N6MHG

Antique Electronic Supply in Tempe Arizona have electronic subs available in both 6 and 12 volt versions. Price varies - \$21-\$25. 602-820-5411

Jan Skirrow, VE7DJX
dma@islandnet.com

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: Ray Johnston <visions@gate.net>
Subject: Wanted - Hallicrafters HA-20 VFO (DX Adapter)
Message-ID: <Pine.A32.3.91.951204132844.20348A-100000@seminole.gate.net>

I'm looking for an HA-20 VFO for my SR-400. If anyone happens to have one in the attic or taking up space on some shelf, I'd appreciate a note from you.

Hallicrafters - The poor man's Collins...

Thanks...

Ray

Ray Johnston (visions@gate.net) Boca Raton FL USA

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: FRANCIS4@AppleLink.Apple.COM (Francis, Dexter)
Subject: Weller (cold) Irons
Message-ID: <818113439.7322259@AppleLink.Apple.COM>

Dave Stinson says:

>Does anyone have a recommendation for a really good quality
>soldering iron. This Weller 100/140 is as worthless as a
>coon dog at a deer hunt! grumble, grumble.

Oh dear...this means I'm not the only one with this problem. I recently bought a Weller 8200 (100W/140W - \$42) for work and had the same experience. A couple of weeks later I picked up an Ungar 110 (100W/140W - \$30) for home use. I can now say with complete authority that the Ungar beats the pants off the Weller. I used the Ungar for *silver* soldering a cracked .040" thick steel tab on the SX-25 chassis (BFO knob turn stop...simple but effective) and it worked fine. I never would have believed that Weller could have gone in the dumper. performance wise, but there's the evidence.

BTW - I too have a Weller WCC-100 station that I use for those "other" sorts of parts. It's a fine tool and does O.K. on BAs because of the temperature control kicks it up when it gets applied to a ground lug on a chassis mounted cap. However, I also had to replace the thermocouple in it a few weeks ago and that

cost almost as much as the Ungar. You can pull tree stumps with a Volkswagen, BUT it's much better in the long run to use a Dodge PowerWagon.

-df

P.S. Thanks to the group for not relieving me of the SX-25 and HT-32A a few weeks back. It's been very theraputic to clean the 25 up. I've got all the rust/grunge and sloppy wiring cleaned up/cut out and am going to start the re-wiring.

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: jcreid@CCGATE.HAC.COM
Subject: Weller vs. Ungar
Message-ID: <9511048181.AA818115989@CCGATE.HAC.COM>

Gang,

If you'll look in the latest Allied Electronics catalog, you'll notice that all the Weller stuff now also has the Ungar label. Maybe Weller stuff was going into the dumpster and they bought out Ungar to save the day. Personally I've never had any problems with my Weller stuff(except for that terrible rechargable clunker I had). My solder station works every time and my dad's old Weller gun still works fine even after several falls from the workbench onto the concrete. My American Beauty is awesome for direct-to-chassis ground connections.

-Jim N6SVS
jcreid@ccgate.hac.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: "Gary H. Harmon, Jr." <gharmon@legend.txdirect.net>
Subject: Wire Chain
Message-ID: <9512051817.AA26160@legend>

This posting is for a friend (Hal Roby/K5JMI) who is looking for what he describes as a small chain product made out of approximately 20 gauge wire size. The same philosophy as a bicycle chain but much, much smaller. He remembers seeing it in some BA equipment used for one control/sprocket to turn another control/sprocket. Size is about 1/4 in. Any of you resident experts have any ideas? He needs about 4 feet. Thanks and Happy Holidays.

=====
Gary H. Harmon, Jr., K5JWK gharmon@txdirect.net

6302 Robin Forest
San Antonio, TX 78239

K5JWK@K3WGF.STX.USA.NOAM

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: Peter Gerba <pgerba@crl.com>
Subject: World Radio Ruler
Message-ID: <Pine.SUN.3.91.951204182740.11873A-100000@crl12.crl.com>

I have a promo metal ruler from World Radio Labs. Fair cond. Measures in inches and cm. Photos of 500A Globe King and 65A Globe Scout on the front. This Fine collectors item free to the ham who posts the best reason for owning it, ie why I should hand it over. Please post your reasons to the group.

I hope this is ok with Jack ?

Happy Hollidays !

pete, kn6bi
pgerba@crl.com

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: MODSTEPH@ACS.EKU.EDU
Subject: Re: World Radio Ruler
Message-ID: <01HYFDAHFS5E003FD0@ACS.EKU.EDU>

Well, for one my brother won the Leo Myerson look-alike contest, complete to the bow tie...

And it would look so good with my Globe Scout 680 -- help make up for the burnt-orange color somebody painted it. (Oh - the Globe Scout DOES work just fine, thanks - in spite of its non-original color scheme) (and it is a better color than Jim W8KGI's GREEN Globe Scout!!)

73, Al N5AIT

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: "Jonathan W. Hays" <jonathan@Hays.ORG>
Subject: Re: World Radio Ruler
Message-ID: <Pine.3.89.9512042021.A1506-0100000@linux.hays.org>

'cause I need it for school?
:)

-Jonathan

```
*****
*Jonathan W. Hays xx Member of SYX xx X-Phile xx Monty Python Freak xx IRCer*
*nick: Guano xx Rock music lover xx Steeler Fan xx Smashing Pumpkins Fan!!**
*KC7GPT xx Lover of all things stupid, silly, or weird xx Hater of RAP!*****
*****jonathan@hays.org*****http://www.hays.org/~jonathan*****
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THE  x  -files {THE TRUTH IS OUT THERE}
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I want to believe

On Mon, 4 Dec 1995, Peter Gerba wrote:

```
> I have a promo metal ruler from World Radio Labs. Fair cond. Measures in
> inches and cm. Photos of 500A Globe King and 65A Globe Scout on the front.
> This Fine collectors item free to the ham who posts the best reason for
> owning it, ie why I should hand it over. Please post your reasons to the
> group.
>
> I hope this is ok with Jack ?
>
> Happy Hollidays !
>
> pete, kn6bi
> pgerba@crl.com
>
```

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: jschwart@ix.netcom.com (John Schwartzberg)
Subject: Re: World Radio Ruler
Message-ID: <199512051614.IAA01139@ix9.ix.netcom.com>

> Please post your reasons to the group.

I need the WRL ruler to complete the radiator on my 160 meter BA shortened vertical.

John
N0GII
jschwart@ix.netcom.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: Steve Ellington <n4lq@iglou.com>
Subject: Re: World Radio Ruler
Message-ID: <Pine.SOL.3.91.951205132215.11353B-100000@iglou>

If I owned that ruler I would contact e o Myerson, after checking the spelling of his name, and ask if he wanted it for his museum. There was an article in QST about this recently. As you know, Leo was the owner of WRL.

Steve Ellington N4LQ@IGLOU.COM Louisville, Ky

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: "Nickels, Bob" <RNickels@P16.IL50.micro.honeywell.com>
Subject: Re: World Radio Ruler
Message-ID: <30C49393@mail_gw.micro.honeywell.com>

> Please post your reasons to the group.

I need the WRL ruler to measure the mounting hole distance for the replacement plate transformer for my Globe King 500B.

73,

Bob KE0T

PS: I would take a plate transformer as a consolation prize!

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: Lrware@aol.com
Subject: Re: World Radio Ruler
Message-ID: <951205184209_125961309@emout05.mail.aol.com>

<snip>

>Photos of 500A Globe King and 65A Globe Scout on the front.

<snip>

I need this ruler so that I can become the listowner of:

"The Boatanchor Rulers List"

Thus I will be able to rule my boatanchors and grant only inches of freedom...

-Larry
lrware@aol.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: "Nickels, Bob" <RNickels@P16.IL50.micro.honeywell.com>
Subject: WRL Ruler
Message-ID: <30C4BDC1@mail_gw.micro.honeywell.com>

I would like the WRL Ruler to use in measuring the mounting center distance for the replacement plate transformer for my Globe King 500B.

Bob Nickels KE0T
rnickels@p16.il50.micro.honeywell.com

PS: I would take a replacement plate transformer as a consolation prize!

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: Eric Bicker <ebicker@cayman.vf.mmc.com>
Subject: RE:WTB D-104
Message-ID: <199512041650.LAA12866@franklin.vf.mmc.com>

>> I'd like to purchase a D-104 for my Eico 730 modulator. The

>Last time I was in Suburban Electronics in Suitland MD,
>they have a gaggle of them, new in the box.

Don't forget that the only stand Astatic makes for the D-104 is the amplified version. Older D-104s used the UG-8 stand, which was just that - a grip-to-talk stand. The modern stand is TG-9 (?) which has a transistorized preamp intended to make the mike work better with modern rigs.

If you have an older BA rig, the older mike without amplification is what you want, IMO.

73,

Paul, K4MSG

I don't think it really matters whether you get the amplified D-104 or not. The original D-104's with the non-amplified stands provide a very high output without a preamp. When connecting it to a TS-530, I found that the output was actually too high. I had to put a resistive attenuator in the stand for it to work properly.

Even if you don't need the pre-amp, you can always remove it from the base.

Eric, WB2QNH

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: dma@IslandNet.com (Jan Skirrow)
Subject: WTB: 32S1 or KWM2
Message-ID: <m0tN0tu-0005YrC@island.amtsgi.bc.ca>

I'm looking for either a 32S1 transmitter or KWM2/2A transceiver, with power supply, in good condition. Electrical is more important than cosmetic - but no extra holes! Would consider the station monitor and 75S1 receiver as well if the package price were right.

Prefer to pick up in the Pacific Northwest - from Vancouver, BC to the Portland, Oregon area - sometime in the next couple of weeks.

Please e-mail details.

73, Jan Skirrow, VE7DJX
dma@islandnet.com

From boatanchors@theporch.com Tue Dec 5 01:16:00 1995
From: Ken Harrison <harrisok@SONOMA.EDU>
Subject: Yet more D-104 talk...
Message-ID: <Pine.PMDF.3.91.951204124503.1078082456F-1000000@SONOMA.EDU>

I can't really help much in the search for a D-104 but wanted to put this out to the group.

I came across a D-104 mic that is of the standard lollipop design but there is no grip to talk bar. The grip portion is of two different diameters, skinny on the bottom and larger above and is divided roughly in half. The mic cord exits the grip about 2/3 the way up in the rear.

Since there is no GTT ;-) switching, it works just fine for my Gonset

G-50 which has the xmit/rcv switch on the front of the radio. Is this a rare D-104 and base variation? Possibly this particular mic was more intended for some sort of PA system?

Ken

Ken Harrison --- harrisok@vax.sonoma.edu --- Amateur Radio: N6MHG

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: Re: Yet more D-104 talk...
Message-ID: <Pine.ULT.3.91.951204220909.684A-1000000@admin.aurora.edu>

On Mon, 4 Dec 1995, Ken Harrison wrote:

> I came across a D-104 mic that is of the standard lollipop design but
> there is no grip to talk bar. The grip portion is of two different
> diameters, skinny on the bottom and larger above and is divided roughly
> in half. The mic cord exits the grip about 2/3 the way up in the rear.

I have a T-3 mic, which is a chrome bullet shaped mic, that has the same 3 pin socket base as the D104. Either mic can be used on the "G" stand or on an adapter which mounts on a standard 3/8 mic stand. The adapter is about 2 1/2 inches long, has the socket on top for the mic, and has a 3/8 threaded base. There is a slot on the back for the cord to come out. This adapter was used on floor stands or wherever the PTT bar was not desired. Sounds like what you have is this same adapter on a 3 inch (or so) table stand. When I looked in one of my catalogs, I could not find a part or model number for this adapter but I think it is what they called a "handle".

73 de Bob, K9EUI

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: Ken Harrison <harrisok@SONOMA.EDU>
Subject: Re: Yet more D-104 talk...
Message-ID: <Pine.PMDF.3.91.951205002418.1078088976D-1000000@SONOMA.EDU>

On Mon, 4 Dec 1995, Bob Roehrig wrote:

> I have a T-3 mic, which is a chrome bullet shaped mic,

Do they still make these? I have a friend who would like to get one.

> When I looked in one of my catalogs, I could not
> find a part or model number for this adapter but I think it is what they
> called a "handle".

It is kind of hard to make out on the tag on the base, but I believe it says "E 1" for the model of the base.

Thanks for the reply, Bob and 73--
Ken

Ken Harrison --- harrisok@vax.sonoma.edu --- Amateur Radio: N6MHG

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: "Roberta J. Barmore" <rbarmore@indy.net>
Subject: Re: Yet more D-104 talk...
Message-ID: <Pine.3.89.9512051037.B26900-0100000@indy1>

Hi, Gang!

When talking about D-104 microphones, it's easy to forget they have been around a long time. A *very* long time; they start showing up in QST and Radio in the late 1930s.

...And the very first ones came with four little hooks around the body of the mic, so they could be spring-mounted in a ring! One of those in working shape would probably be about rarest D-104.

The grip-to-talk stand is considerably newer than the mic itself. I don't recall seeing them in prewar ham magazines (haven't seen all of 'em, though) and I suspect it was a postwar innovation. There weren't a *lot* of PTT-type mics prewar, though it wasn't unknown.

73,
--Bobbi

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995

From: "Nickels, Bob" <RNickels@P16.IL50.micro.honeywell.com>
Subject: Re: Yet more D-104 talk...
Message-ID: <30C49B13@mail_gw.micro.honeywell.com>

> I have a T-3 mic, which is a chrome bullet shaped mic,

Me too, but my crystal cartridge has long since turned into a salt shaker.

Are the replacement cartridges available from Astatic, or anywhere else? Any help with ordering/info would be appreciated. It's a pretty cool mic.

Bob KE0T
rnickels@p16.il50.micro.honeywell.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: scott@hpislst.lvld.hp.com
Subject: Re: Yet more D-104 talk...
Message-ID: <199512052002.AA236283719@hp.com>

Bob writes:

>

> Me too, but my crystal cartridge has long since turned into a salt shaker.
> Are the replacement cartridges available from Astatic, or anywhere else? Any
> help with ordering/info would be appreciated. It's a pretty cool mic.

For Bob's information, and anyone else who may not know, Astatic is still very much in business and the D104 and the T3 are still available. Astatic also still sells replacement cartridges. While I'm sure there are other sources, Amateur Electronic Supply sells the mics, the squeeze-to-talk amplified base, and replacement cartridges. I've purchased several cartridges from them.

Scott Turner KG0MR scott@lvld.hp.com

From boatanchors@theporch.com Wed Dec 6 00:30:00 1995
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: Re: Yet more D-104 talk...
Message-ID: <Pine.ULT.3.91.951205163058.27191A-1000000@admin.aurora.edu>

On Tue, 5 Dec 1995, Nickels, Bob wrote:

> > I have a T-3 mic, which is a chrome bullet shaped mic,

> Me too, but my crystal cartridge has long since turned into a salt shaker.
> Are the replacement cartridges available from Astatic, or anywhere else? Any
> help with ordering/info would be appreciated. It's a pretty cool mic.

I dunno what Astatic's status is, Bob. I looked in a couple of catalogs that used to carry their stuff and I don't see them listed. I haven't checked my T3 but my D=1-4 was shot. What I did was cut a round fiber disk, drill a hole in it, and install a electret element. Works fine, although you have to power it.

Bob, K9EUI

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: Re: your mail
Message-ID: <Pine.ULT.3.91.951204222511.770A-100000@admin.aurora.edu>

On Fri, 1 Dec 1995, Jake Hellbach wrote:

> Hello to all,
> I just received a message from the ARRL that the W2AN will be on the air as
> a special event station on Saturday, December 2, and Saturday, December 9,
> from 7 PM EST to midnight. The transmitter, restored by the Antique Wireless
> Association, was used for transatlantic contacts in 1921. Listen for its
> bell-like tone on or near 1815 kHz. QSL via AWA, 59 Main St, Bloomfield, NY
> 14469.

Did anyone work this station? I got him about 6:30 CST last night (Sunday) before the band changed. Got enough to make a legal QSO I think before the QRM wiped him out. Sheesh - with all the bandwidth on 160 I dunno why there has to be QRM with all the CW activity trying to cram into the same 5 kHz.

Anyway, his signal was quite good - real clean - sounded like a state-of-the-art rig except for the drift. Was a challenge trying to keep him within my passband :-).

Bob, K9EUI

From boatanchors@theporch.com Tue Dec 5 21:31:00 1995
From: Dave Hockaday <wb4iuy@nando.net>
Subject: Re: your mail
Message-ID: <9512051322.AA13290@merlin.nando.net>

>> Hello to all,

>> I just received a message from the ARRL that the W2AN will be on the air as
>> a special event station on Saturday, December 2, and Saturday, December 9,
>> from 7 PM EST to midnight. The transmitter, restored by the Antique Wireless
>> Association, was used for transatlantic contacts in 1921. Listen for its
>> bell-like tone on or near 1815 kHz. QSL via AWA, 59 Main St, Bloomfield, NY
>> 14469.

>

>Did anyone work this station? I got him about 6:30 CST last night (Sunday)
>before the band changed. Got enough to make a legal QSO I think before the
>QRM wiped him out. Sheesh - with all the bandwidth on 160 I dunno why there
>has to be QRM with all the CW activity trying to cram into the same 5 kHz.
>Anyway, his signal was quite good - real clean - sounded like a
>state-of-the-art rig except for the drift. Was a challenge trying to keep him
>within my passband :-).
>Bob, K9EUI

Yep! I got him about 7PM est Saturday night, he was 599, and I got a 589
back. His signal was a fairly pure note, but as you said...a little
"drifty", heehee. Still, it was nice to work him. There was a contest signal
about 300hz down that was giving him a fit. I wonder if they're gonna offer
a special event certificate for the operations?

73 de Dave WB4IUY